

Datasheet for ABIN3117629

P2RX7 Protein (AA 1-595) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	P2RX7
Protein Characteristics:	AA 1-595
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This P2RX7 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MPACCSCSDV FQYETNKVTR IQSMNYGTIK WFFHVIIFS Y VCFALVSDKL YQRKEPVISS</p> <p>VHTKVKGIAE VKEEIVENG V KKL VHSVFD T ADYTFPLQGN SFFVMTNFLK TEGQEQLRCP</p> <p>EYPTRRTLCS SDRGCKKGWM DPQSKGIQTG RCVVYEGNQK TCEVSAWCPI EAVEEAPRPA</p> <p>LLNSAENFTV LIKNNIDFPG HNYTTRNILP GLNITCTFHK TQNPQCPIFR LGDIFRETGD</p> <p>NFSDVAIQGG IMGIEIYWDC NLDRWFHHR PKYSFRRLDD KTTNVS LYPG YNFRYAKYYK</p> <p>ENNVEKRTL I KVGIRFDIL VFGTGGKFDI IQLVVYIGST LSYFGLAAVF IDFLIDTYSS NCCRSHIYPW</p> <p>CKCCQPCVVN EYYRKKCES IVEPKPTLKY VSFVDESHIR MVNQQLLGRS LQDVKGQEV P</p> <p>RPAMDFTDLS RLPLALHDTP PIPGQPEEQ LLRKEATPRS RDSPVWCQCG SCLPSQLPES</p> <p>HRCLEELCCR KKP GACITTS ELFRKLVL SR HVLQFLLLYQ EPLLALDVDS TNSRLRH CAY</p> <p>RCYATWRFGS QDMADFAILP SCCRWRIRKE FPKSEGQYSG FKSPY</p>

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade:

custom-made

Target Details

Target:	P2RX7
Alternative Name:	P2RX7 (P2RX7 Products)
Background:	<p>P2X purinoceptor 7 (P2X7) (ATP receptor) (P2Z receptor) (Purinergic receptor),FUNCTION: Receptor for ATP that acts as a ligand-gated ion channel. Responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Could function in both fast synaptic transmission and the ATP-mediated lysis of antigen-presenting cells. In the absence of its natural ligand, ATP, functions as a scavenger receptor in the recognition and engulfment of apoptotic cells (PubMed:21821797, PubMed:23303206). {ECO:0000269 PubMed:21821797, ECO:0000269 PubMed:23303206, ECO:0000269 PubMed:28326637}.</p>
Molecular Weight:	68.6 kDa
UniProt:	Q99572
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Synaptic Vesicle Exocytosis

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months